

Title (en)

PROCEDURE FOR TREATING FEED RAW MATERIAL, FEED RAW MATERIAL, AND FEED MIX

Publication

**EP 0286056 A3 19900321 (EN)**

Application

**EP 88105409 A 19880405**

Priority

FI 871490 A 19870406

Abstract (en)

[origin: EP0286056A2] The invention relates to a procedure for treating feed raw material which contains natural material. To the feed raw material is added enzyme preparation about 0.001-1 % by weight, the raw material is subjected to combined hydrothermal and enzymatic treatment at a temperature below 100 DEG C, dried to a moisture content about 5 - 30 % by weight so that the treated feed raw material can be blended into feed at a concentration about 5 - 95 %. The invention further relates to a hydrothermally and enzymatically treated feed raw material and a feed containing said treated natural material.

IPC 1-7

**A23K 1/165**; **A23K 1/18**; **A23K 1/00**

IPC 8 full level

**A23K 1/00** (2006.01); **A23K 1/165** (2006.01); **A23K 1/18** (2006.01); **A23K 10/14** (2016.01); **A23K 40/10** (2016.01); **A23K 50/60** (2016.01)

CPC (source: EP)

**A23K 10/14** (2016.05); **A23K 40/10** (2016.05); **A23K 50/60** (2016.05); **C12Y 302/01** (2013.01); **C12Y 304/00** (2013.01)

Citation (search report)

- [X] EP 0105051 A1 19840411 - QUAKER OATS CO [US]
- [X] GB 2009599 A 19790620 - HENKEL KGAA
- [A] GB 2111366 A 19830706 - SIMON BARRON LTD
- [A] US 4376129 A 19830308 - PIUKOVICH SANDOR [HU], et al
- [A] US 3701830 A 19721031 - WEINRICH BERNARD W, et al
- [A] DE 1084123 B 19600623 - IOWA STATE COLLEGE RES FOUND
- [X] DERWENT FILE SUPPLIER WPI(I), 1986, AN no. 86-251089 (38), Derwent Publications Ltd, London, GB; & SU-A1-1 210 771 (FERMENT RES PRODN) 15-02-1986

Cited by

NL9200750A; US5720971A; US6387420B1; US4954355A; AT504U1; EP0634106A1; CN100429989C; EP1609373A1; NL1026501C2; WO9701967A1; WO03049550A3; WO2006001692A1

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

**EP 0286056 A2 19881012**; **EP 0286056 A3 19900321**; **EP 0286056 B1 19940105**; **EP 0286056 B2 20021211**; **EP 0286056 B9 20030326**; AT E99498 T1 19940115; DE 3886799 D1 19940217; DE 3886799 T2 19940428; DE 3886799 T3 20030918; DK 186388 A 19881007; DK 186388 D0 19880406; ES 2050672 T3 19940601; ES 2050672 T5 20030901; FI 81484 B 19900731; FI 81484 C 19901112; FI 871490 A0 19870406; FI 871490 A 19881007; JP S63301756 A 19881208; NO 881457 D0 19880405; NO 881457 L 19881007; RU 1769704 C 19921015

DOCDB simple family (application)

**EP 88105409 A 19880405**; AT 88105409 T 19880405; DE 3886799 T 19880405; DK 186388 A 19880406; ES 88105409 T 19880405; FI 871490 A 19870406; JP 8321988 A 19880406; NO 881457 A 19880405; SU 4355558 A 19880405